displaying a message on the mobile computer indicating to the user that the mobile computer must be brought back into range of communications with the base unit or host computer or else said leased IP address may be forfeited.

50. The mobile computer terminal of claim 47, wherein said message is a lease renewal message.

51. The mobile computer terminal of claim 49, the method further comprising the step of:

resetting said timer or clock for a next scheduled beg time if the mobile computer is out of range of communications with the base unit or host computer.

REMARKS

Claims 27-29 and 35-51 are pending in this application. Claims 27 and 37 have been amended. Claims 42-51 are newly added and belong to the elected species in this divisional application. It is respectfully submitted that such new claims and amendments are supported by the specification, drawings, abstract of the disclosure and claims, as originally filed, and that no new matter has been added. Specifically, support for the above new claims and amendments is found at FIGs. 4-5, 10A, 10B, 10C and 11 of Applicants' drawings, and at page 17, line 9-page 19, line 17; page 10, line 1-page 12, line 17, and page 15, line 21-page 16, line 8 of Applicants' specification.

Claim Rejections Under 35 U.S.C. 102

Claims 27-28, 35, 37-38 and 40 are rejected under 35 U.S.C. 102(b) as being anticipated by RFC 2002: IP Mobility Support" by Perkins (hereinafter "Support"). The Examiner's rejection with respect to each of Claims 27-28, 35, 37-38 and 40 is respectfully traversed for the reasons that follow. Claims 27 and 37 have been amended only to more clearly set forth the language defining the invention, and to add the waking step and waking means which were respectively inherent in the method and apparatus of original Claims 27 and 37.

Claim 27 recites the steps of programming a timer or clock to wake up the mobile computer terminal so that the mobile computer terminal can send the message at said particular time; entering the mobile computer into a sleep mode; waking up the mobile computer terminal due to the programming of the timer or clock. It is respectfully submitted that page 4, "1.2 Goals"; page 26-28, "3.3 Registration Request, specifically "Lifetime"; page 34-36, "3.6 Mobile Node Considerations", specifically page 35, paragraph 3 beginning "There are other conditions..."; page 41-42, "3.6.2.2 Registration Request", specifically paragraph beginning "If the mobile node has registered on a foreign..." of Support does not disclose any of these steps. Instead page 4 recites a goal of minimizing a number of administrative messages sent over a link, pages 26-28 sets forth details of registration requests, and defines a lifetime of a registration, pages 34-36 discusses that the mobile node maintains lifetime and remaining lifetime information, and states that the mobile node should re-register when the current lifetime's registration is near expiration, and pages 41-42 describes how the remaining lifetime of a registration (that is ultimately granted) is determined from the time a registration request is sent, and this lifetime information is maintained by the mobile node. These descriptions at Support that are being relied upon by the Examiner do not disclose Applicants' advantageous programming of a timer or clock, entering into a sleep mode, and waking of the mobile computer terminal

of the method of Claim 27. Therefore, Claim 27 is allowable over this rejection. Claims 28 and 35 are allowable as being dependent from Claim 27.

Likewise, Claim 37 recites the elements means for programming a timer or clock to wake up the mobile computer terminal so that the mobile computer terminal can send the message at said particular time; means for entering a sleep mode; and means for waking up due to the programming of the timer or clock to send the message at the particular time. It is respectfully submitted that page 4, "1.2 Goals"; page 26-28, "3.3 Registration Request, specifically "Lifetime"; page 34-36, "3.6 Mobile Node Considerations", specifically page 35, paragraph 3 beginning "There are other conditions..."; page 41-42, "3.6.2.2 Registration Request", specifically paragraph beginning "If the mobile node has registered on a foreign..." of Support does not disclose any of these steps. Instead page 4 recites a goal of minimizing a number of administrative messages sent over a link, pages 26-28 sets forth details of registration requests, and defines a lifetime of a registration, pages 34-36 discusses that the mobile node maintains lifetime and remaining lifetime information, and states that the mobile node should re-register when the current lifetime's registration is near expiration, and pages 41-42 describes how the remaining lifetime of a registration (that is ultimately granted) is determined from the time a registration request is sent, and this lifetime information is maintained by the mobile node. These descriptions at Support that are being relied upon by the Examiner do not disclose Applicants' advantageous means for programming of a timer or clock, means for entering into a sleep mode, and means for waking of the mobile computer terminal of the apparatus of Claim 37. Therefore, Claim 37 is allowable over this rejection. Claims 38 and 40 are allowable as being dependent from Claim 37.

Claim Rejections Under 35 U.S.C. 103

Claims 29, 36, 39 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Support. The rejection of each of Claims 29, 36, 39 and 41 is respectfully traversed for the reasons that follow.

First, Claims 29 and 36 are dependent from Claim 27, and Claims 39 and 41 are dependent from Claim 37. As discussed above, three advantageous steps of the method recited at Claim 27, as well as three advantageous elements of the apparatus recited at Claim 37, are not disclosed nor indicated nor anywhere suggested at page 4, "1.2 Goals"; page 26-28, "3.3 Registration Request, specifically "Lifetime"; page 34-36, "3.6 Mobile Node Considerations", specifically page 35, paragraph 3 beginning "There are other conditions..."; page 41-42, "3.6.2.2 Registration Request", specifically paragraph beginning "If the mobile node has registered on a foreign..." of Support. For this reason alone, Claims 29 and 39 are allowable, and Claims 36 and 41 are allowable as being dependent therefrom, respectively.

Second, the Examiner admits that Support does not expressly disclose displaying a message indicating the mobile computer should be brought back in range of the host otherwise the leased IP address may be lost, and thus does not disclose this feature of Applicants' invention as set forth at Claims 29 and 39. It is respectfully submitted that this feature is also not suggested by Support nor is it obvious in view of what Support does disclose. Support keeps track of the IP lease lifetime and expiration, and page 17 of Support provides that a foreign agent must continue to send Agent Advertisements, so that any mobile nodes already registered with it will know that they have not moved out of range of the foreign agent and that the foreign agent has not failed. These teachings do not suggest Applicants' advantageous displaying of a message indicating to the user that the mobile computer must be brought back into range of communications with the host computer or else said leased IP address may be forfeited. In fact,

they do not suggest indicating anything to the user. These teachings of Support do not even suggest a course of action to be taken by the mobile nodes, e.g., looking for a different foreign agent if an Agent Advertisement has not been recently received. They only require that a foreign agent in compliance with the standard must continue to send Agent Advertisements. For this additional reason, Claims 29 and 39 are allowable, and Claims 36 and 41 are allowable as being dependent therefrom, respectively.

Newly Added Claims

Newly added Claims 42-46 and 47-51 are each allowable for the reasons set forth above with respect to Claims 37 and 27, respectively. Moreover, Claims 44 and 46 and Claims 49 and 51 are allowable for the reasons set forth above with respect to Claims 39 and 41 and Claims 29 and 36, respectively. Moreover, newly added Claims 42-51 are allowable for the following additional reasons.

The mobile computer terminal of Claim 42 includes a hand-held scanner. As understood, Support does not teach or suggest this element. Moreover, the mobile computer terminal of Claim 42 which includes the hand-held scanner, a processor and a memory, acting on stored programming instructions read by a processor, performs the steps of: reading an image by said hand-held scanner; transforming data corresponding to the image read, the transformed data to be transferred from the mobile computer terminal for eventual entry into a database; and sending the transformed data to a base unit or host computer according to coordinated data formatting and ordering between the mobile terminal and the base unit or host computer. As understood, there is no teaching of suggestion by Support of a mobile node having such programming instructions stored in a memory thereof. Moreover, the instruction to read an image by a hand-held scanner would not be adhered to because the mobile node is not taught or suggested to include a hand-held image scanner. Claims 43-46 are allowable as being dependent from Claim 42. The method of Claim 47 is allowable for similar

reasons as the apparatus of Claim 42, and Claims 48-51 are allowable as being dependent from Claim 47.

In view of the above, it is respectfully submitted that the application is now in condition for allowance. The Examiner's reconsideration and further examination are respectfully requested.

A check for the amount of $84.00 is enclosed for payment of the additional independent claim.

In the event any additional fee is required for filing the above-noted document, including any fees required under 37 CFR 1.136 for any necessary Extension of Time to make the filing attached document timely, the Assistant Commissioner is hereby authorized to charge the fee to our Deposit Account No. 50-0612. A duplicate of this page is enclosed.

Respectfully submitted,
SIERRA PATENT GROUP, LTD.

Dated: / - 3 - 3

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27. (Amended) A method for communication between a mobile computer terminal and a host computer in a system in which it is necessary <u>in order to avoid being disconnected</u> for the mobile computer terminal to send a message to the host computer [at a particular time], including the steps of:

determining [the specific] <u>a particular</u> time at which the mobile computer terminal [must] <u>is to</u> send [a] <u>the</u> message to the host computer;

programming a timer or clock to wake up the mobile computer terminal <u>so that the mobile computer terminal can send the message</u> at said [specific] <u>particular</u> time;

entering <u>the mobile computer into</u> a sleep mode;

<u>waking up the mobile computer terminal due to the programming of the timer or clock;</u> and

sending the message at said [specified] <u>particular</u> time.

37. (Amended) A mobile computer terminal <u>in a system in which it is necessary in order to avoid being disconnected for the mobile computer terminal to send a message to a host computer,</u> including:

a communications module for communication with the host computer in a system;

means for determining [the specific] <u>a particular</u> time at which the mobile computer terminal [must] <u>is to</u> send [a] <u>the</u> message to the host computer;

means for programming a timer or clock to wake up the mobile computer terminal <u>so that the mobile computer terminal can send the message</u> at said [specific] <u>particular</u> time; [and]

means for entering a sleep mode<u>; and</u>

<u>means for waking up due to the programming of the timer or clock to send the message at the particular time.</u>

Please add the following new claims:

--42. (New) A mobile computer terminal including:

a communications module for communication with a base unit or host computer in a system;

a hand-held image scanner;

a processor; and

a memory having stored therein program instructions for reading by the processor such that the mobile computer terminal performs the steps of:

reading an image by said hand-held scanner;

transforming data corresponding to the image read, the transformed data to be transferred from the mobile computer terminal for eventual entry into a database;

sending the transformed data to a base unit or host computer according to coordinated data formatting and ordering between the mobile terminal and the base unit or host computer;

determining a particular time at which the mobile computer terminal is to send a message to the base unit or host computer to avoid being disconnected;

programming a timer or clock to wake up the mobile computer terminal so that the mobile computer terminal can send the message at said particular time;

entering the mobile computer terminal into a sleep mode; and

waking up the mobile computer terminal from the sleep mode due to the programming of the timer or clock to send the message at the particular time.

43. (New) The mobile computer terminal of claim 42, wherein said system is a system utilizing the limited leasing of IP addresses and said message is a message begging for more time.

44. (New) The mobile computer terminal of claim 43, the memory having stored therein further program instructions for reading by the processor such that the mobile computer terminal performs the further steps of:

determining if the mobile computer is out of range of communications with the base unit or host computer; and

displaying a message on the mobile computer indicating to the user that the mobile computer must be brought back into range of communications with the base unit or host computer or else said leased IP address may be forfeited.

45. (New) The mobile computer terminal of claim 42, wherein said message is a lease renewal message.

46. (New) The mobile computer terminal of claim 44, the memory having stored therein further program instructions for reading by the processor such that the mobile computer terminal performs the further step of:

resetting said timer or clock for a next scheduled beg time if the mobile computer is out of range of communications with the base unit or host computer.

47. (New) A method for communication between a mobile computer terminal and a base unit or host computer in a system in which it is necessary for the mobile computer terminal to send a message to the base unit or host computer to avoid being disconnected, the mobile computer terminal at least including a hand-held image scanner, a processor, and a memory, the method comprising the steps of:

reading an image by said hand-held image scanner;

transforming data corresponding to the image read, the transformed data to be transferred from the mobile computer terminal for eventual entry into a database;

sending the transformed data to a base unit or host computer according to coordinated data formatting and ordering between the mobile terminal and the base unit or host computer;

determining a particular time at which the mobile computer terminal is to send a message to the base unit or host computer to avoid being disconnected;

programming a timer or clock to wake up the mobile computer terminal so that the mobile computer terminal can send the message at said particular time;

entering the mobile computer terminal into a sleep mode; and

waking up the mobile computer terminal from the sleep mode due to the programming of the timer or clock to send the message at the particular time.

48. (New) The method of claim 47, wherein said system is a system utilizing the limited leasing of IP addresses and said message is a message begging for more time.

49. (New) The mobile computer terminal of claim 48, the method further comprising the steps of:

determining if the mobile computer is out of range of communications with the base unit or host computer; and

displaying a message on the mobile computer indicating to the user that the mobile computer must be brought back into range of communications with the base unit or host computer or else said leased IP address may be forfeited.

50. (New) The mobile computer terminal of claim 47, wherein said message is a lease renewal message.

51. (New) The mobile computer terminal of claim 49, the method further comprising the step of:

resetting said timer or clock for a next scheduled beg time if the mobile computer is out of range of communications with the base unit or host computer.--